



# Efficiency, Utility Coordination and the Green Buildings Initiative

May 30, 2006

John Sugar

California Energy Commission



# CEC - Utility Collaboration Standards

- Building and Appliance Standards
  - Strong Utility Collaborative Effort
    - CASE (Codes & Standards Enhancement) Studies
    - Builds on Best Practices Brought to Market By Utility Incentives Programs
    - "Exit" Strategy for Utility Incentives for measures that are ready to be incorporated into Standards
    - Improves Compliance Through Builder/Industry Training



# CEC - Utility Collaboration

- PIER – Research and Development
  - Emerging Technologies Coordinating Council
  - Updates for Energy Center Training Staff
  - Coordinating Research with Utility Program Offerings
  - Collaborating with 3<sup>rd</sup> Party Programs to Demonstrate New Technologies



# CEC - Utility Coordination

- Public Agency/School Energy Efficiency
  - CEC Public Agency Tech Assistance and Loans Work in Combination with PGC Incentives for Efficiency Improvements
  - Coalition for High Performance Schools Collaboration Between Utilities and CEC
- Industrial Energy Efficiency
  - Success Stories Working Closely with SoCalGas and PG&E – Hope to Build on These



# Green Buildings Initiative

- CEC Role Includes
  - Chairing and staffing the GBI Energy Efficiency Committee
    - Committee Focus is Commercial, non-State, Buildings
    - Facilitating Benchmarking and Commissioning
  - Working within State Agencies
  - Working with Local Agencies through existing programs



# Green Buildings Initiative

- Large Segment of GBI-Planned Savings Result from Commissioning and Benchmarking
  - Goal requires significant utility involvement
  - PIER is researching persistence of commissioning savings, to evaluate it as a “resource” activity
  - These have traditionally been “information” activities, not credited with energy savings.
  - Leaves uncertainty regarding how results of these efforts contribute to utility EE goals
  - Success of much of the GBI Effort Depends on Resolving this Discontinuity



# Green Buildings Initiative

- **GBI Efficiency Committee Workgroups**
  - **Planning and Strategy - Chaired by Gene Rodrigues**
    - Program Options to Achieve 20% Reduction in Energy Use by 2015 in All Commercial Buildings.
    - Utility Commitment is an essential element
    - Existing Level of Effort May not be Sufficient
    - Requires a Broad Effort
  - **Commissioning - Chaired by Jim Parks, SMUD**
    - Develop and Promote Commissioning Guidelines
    - Need Active Utility Commissioning Programs
    - Work with California Commissioning Collaborative



# Green Buildings Initiative

- GBI Efficiency Workgroups
  - Benchmarking - **Chaired by Doug Mahone (PGC Funded)**
    - Broad-scale Benchmarking of Commercial Buildings
    - Utility Commitment is central to Success
  - Owner Outreach – **Chair: Brenna Walraven USAA Real Estate**
    - Informing and Engaging Commercial Building Owners To Take Energy Efficiency Actions
    - Utilities, Flex Your Power and CEC Collaboration





# Green Buildings Initiative

- Public Agencies and Schools
  - State Agencies – Life Cycle Costing Methodology to Justify and Finance Projects
  - Public Agencies and Schools – Commitment to Energy Efficiency
  - Agencies Successfully Using PGC funding
    - UCs and CSUs 3<sup>rd</sup> Party Program
    - Department of Corrections 3<sup>rd</sup> Party Program
    - Community Colleges 3<sup>rd</sup> Party Program



# Energy Commission Contact Information

- Green Buildings Initiative
  - <http://www.energy.ca.gov/greenbuilding/index.html>
- Building Efficiency Standards
  - <http://www.energy.ca.gov/title24/index.html>
- Appliance Efficiency Standards
  - <http://www.energy.ca.gov/appliances/index.html>
- Public Agency Programs
  - [http://www.energy.ca.gov/efficiency/public\\_programs.html](http://www.energy.ca.gov/efficiency/public_programs.html)
- Public Interest Energy Research
  - <http://www.energy.ca.gov/pier/index.html>